BRUHAT BANGALORE MAHANAGARA PALIKE

Detailed Estimate for :-

Providing open gym in Vivekananda park and SFS 407 Park in Attur ward no 03.

Estimated cost Rs.50.00 Lakhs

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
1	Earth work in surface excavation in hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.50m. excavated surface levelled and neatly dressed , disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.(S.R.of PWD 2016-17, P.No.5, I.No.2.2)								
	Vivekananda park:-Open gym platform	1	15.80	9.65	0.40	60.99			
		1	8.30	2.10	0.40	6.97			
		1	5.00	1.80	0.40	3.60			
	Todlar platform	1	5.00	5.00	0.40	10.00			
	Platform Approach	1	5.00	0.75	0.40	1.50			
						83.06			
	(-)Deductions for pathies:-	2	1.10	1.00	0.40	0.88			
		1	0.60	0.60	0.40	0.14			
		1	1.00	0.90	0.40	0.36			
		1	1.25	0.80	0.40	0.40			
		1	1.10	1.05	0.40	0.46			
						2.25			
					Total	**80.81**	233.20	Cum	18845.82
	Basic Rate	220.00							
	Area Weightage @ 6%	13.20							
	Total	233.20							
2	Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (KSB 2.1) (b) 2.3.5, P-5, 1-2.4)								
	Kerb stoneS:- For Platform	2	15.80	0.30	0.25	2.37			
		2	4.70	0.30	0.25	0.71			
	Todlar platform	2	4.90	0.30	0.25	0.74			
		2	4.65	0.30	0.25	0.70			
	seated chest press	1	0.65	0.50	0.60	0.20			
	Waist twister	4	0.50	0.50	0.60	0.60			
	Rider	1	0.50	0.50	0.60	0.15			
	Arm & Pedal Bike	1	0.50	0.50	0.60	0.15			
	Self weighted rower	1	0.50	0.50	0.60	0.15			
	Elliptical Corss trainer	1	0.50	0.50	0.60	0.15			
	Tai Chi Spinner	1	0.50	0.50	0.60	0.15			
	HD Health Walker	2	0.50	0.50	0.60	0.30			
	For Instruction Manual	2	0.50	0.50	0.50	0.25			
	Multiplay Station	4	1.00	1.00	1.00	4.00			
		4	2.00	1.00	1.00	8.00			
	Swing	4	1.00	1.00	0.60	2.40			
	See saw	1	1.00	1.00	0.60	0.60			
	Riders	3	0.50	0.50	0.60	0.45			
	Merry-go-round	1	1.00	0.80	0.60	0.48			
						22.53	200.34	Cum	4514.16
	Basic rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							
3	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.								
	Vivekananda park:-Open gym platform	1	15.45	4.70	0.20	14.52			
	Todlar platform	1	4.65	4.60	0.20	4.28			
						18.80			
	Deductions :-seated chest press	1	0.65	0.50	0.20	0.07			
	Waist twister	4	0.50	0.50	0.20	0.20			
	Rider	1	0.50	0.50	0.20	0.05			

	rm & Pedal Bike	1	0.50	0.50	0.20	0.05			
	Self weighted rower	1	0.50	0.50	0.20	0.05			
	Elliptical Corss trainer	1	0.50	0.50	0.20	0.05			
	Tai Chi Spinner	1	0.50	0.50	0.20	0.05			
	HD Health Walker	2	0.50	0.50	0.20	0.10			
	For Instruction Manual	2	0.50	0.50	0.20	0.10			
	Riders	3	0.50	0.50	0.20	0.15			
	Merry-go-round	1	1.00	0.80	0.20	0.16			
						1.03			
					Total	**17.78**	80.56	Cum	1432.03
	Basic Rate	76.00							
	Area weightage @ 6%	4.56							
	Total	80.56							
4	Providing and fixing precast solid concrete kerb stones made out of CC. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete P. No. 25 I. No.5.29.2								
	Kerb stones	2	15.70			31.40			
		2	4.70			9.40			
	Todlar platform	2	4.90			9.80			
		2	4.60			9.20			
	Missing&Damaged portion new kerbs	1	45.00			45.00			
						104.80			
	(1kerb=0.45 Mtr)			**232.89**	Say	233.00			
						233.00	385.84	Nos	89900.72
	Basic Rate	364.00							
	Area weightage @ 6%	21.84							
	Total	385.84							
5	Providing and laying in position plain cement concrete of Mix CC 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.3)								
	Vivekananda park:-Open gym platform	1	15.45	5.95	0.15	13.79			
		1	8.30	2.10	0.15	2.61			
		1	5.00	1.80	0.15	1.35			
	Todlar platform	1	4.65	4.65	0.15	3.24			
	Platform Approach	1	4.65	0.75	0.15	0.52			
	Missing kerbs	1	45.00	0.30	0.15	2.03			
	seated chest press	1	0.65	0.50	0.15	0.05			
	Waist twister	4	0.50	0.50	0.15	0.15			
	Rider	1	0.50	0.50	0.15	0.04			
	Arm & Pedal Bike	1	0.50	0.50	0.15	0.04			
	Self weighted rower	1	0.50	0.50	0.15	0.04			
	Elliptical Corss trainer	1	0.50	0.50	0.15	0.04			
	Tai Chi Spinner	1	0.50	0.50	0.15	0.04			
	HD Health Walker	2	0.50	0.50	0.15	0.08			
	For Instruction Manual	2	0.50	0.50	0.15	0.08			
	Multy play station	4	1.00	1.00	0.15	0.60			
		4	2.00	1.00	0.15	1.20			
	swing	4	1.00	1.00	0.15	0.60			
	Sea saw	1	1.00	1.00	0.15	0.15			
	Riders	3	0.50	0.50	0.15	0.11			
	Merry-go-round	1	1.00	0.80	0.15	0.12			
						26.86			
	(-)Deductions for pathies:-	2	1.10	1.00	0.15	0.33			
		1	0.60	0.60	0.15	0.05			
	seated chest press	1	0.65	0.50	0.15	0.05			
	Waist twister	4	0.50	0.50	0.15	0.15			
	Rider	1	0.50	0.50	0.15	0.04			
	Arm & Pedal Bike	1	0.50	0.50	0.15	0.04			
	Self weighted rower	1	0.50	0.50	0.15	0.04			
	Elliptical Corss trainer	1	0.50	0.50	0.15	0.04			

	ai Chi Spinner	1	0.50	0.50	0.15	0.04			
	HD Health Walker	2	0.50	0.50	0.15	0.08			
	For Instruction Manual	2	0.50	0.50	0.15	0.08			
	Riders	3	0.50	0.50	0.15	0.11			
	Merry-go-round	1	1.00	0.80	0.15	0.12			
						1.15			
					Total	**25.71**	5159.02	Cum	132644.21
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	5159.02							
6	KSRB4-1.5:-Providing and laying in positionp lain cement concrete of Mix M20 with opc cement @300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.43 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour HOM of machinery curing complete as per specification, specification No. KBS 4, 1, 4.2 (PageNo.12, Item No.4.5)								
	Vivekananda park:-Open gym platform	1	15.45	5.95	0.125	11.49			
		1	8.30	2.10	0.125	2.18			
		1	5.00	1.80	0.125	1.13			
	Todlar platform	1	4.65	4.65	0.125	2.70			
	Platform Approach	1	4.65	0.75	0.125	0.44			
	seated chest press	1	0.65	0.50	0.60	0.20			
	Waist twister	4	0.50	0.50	0.60	0.60			
	Rider	1	0.50	0.50	0.60	0.15			
	Arm & Pedal Bike	1	0.50	0.50	0.60	0.15			
	Self weighted rower	1	0.50	0.50	0.60	0.15			
	Elliptical Corss trainer	1	0.50	0.50	0.60	0.15			
	Tai Chi Spinner	1	0.50	0.50	0.60	0.15			
	HD Health Walker	2	0.50	0.50	0.60	0.30			
	For Instruction Manual	2	0.50	0.50	0.45	0.23			
	Multy play station	4	1.00	1.00	0.60	2.40			
		4	2.00	1.00	0.60	4.80			
	swing	4	1.00	1.00	0.60	2.40			
	Sea saw	1	1.00	1.00	0.45	0.45			
	Riders	3	0.50	0.50	0.45	0.34			
	Merry-go-round	1	1.00	0.80	0.45	0.36			
						30.75			
	(-)Deductions for pathies:-	2	1.10	1.00	0.125	0.28			
		1	0.60	0.60	0.125	0.05			
						0.32			
					Total	**30.43**	5874.52	Cum	178767.15
	Basic Rate	5542.00							
	Area Weightage @ 6%	332.52							
	Total	5874.52							
7	Providing and fixing cement base precast, pre-polished cement concrete designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, including cutting, gridding the edge to half/full round wherever required, labour curing complete as per specification. P.109, I. No.14.62								
	Vivekananda park:-Open gym platform	1	15.45	5.95		91.93			
	Todlar approach	1	4.65	0.75		3.49			
						95.42			
	(-)Deductions for pathies:-	2	1.10	1.00		2.20			
		1	0.60	0.60		0.36			
						2.56			
					Total	**92.86**	1116.18	sqmt	103642.89
	Basic Rate	1053.00							
	Area weightage @ 6%	63.18							
	Total	1116.18							
8	Removing and resetting of Kerb stone I:34.18								
	Park area	2	115.00			230.00			
	Missing and damaged portion	2	22.50			45.00			
					Total	**185.00**	65.72	Mtr	12158.20
	Basic Rate	62.00							
	Area weightage @ 6%	3.72							

	otal	65.72							
	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.								
	Vivekananda park:-Open gym platform	2	15.45		0.45	13.91			
		2	4.70		0.45	4.23			
	Todlar platform	2	4.65		0.45	4.19			
		2	4.60		0.45	4.14			
	Circular masanry wall	1	3.142	18.20	1.50	85.78			
	Missing kerbs	1	45.00		0.35	15.75			
					Total	**127.99**	27.56	sqmt	3527.31
	Basic Rate	26.00							
	Area weightage @ 6%	1.56							
	Total	27.56							
10	KSRRB M2700- Painting on Concrete Surface KSRRB M2700-12. Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint at of 1 litre for 2 sqm complete as per specifications MORTH Specification No. 800								
	Vivekananda park:-Open gym platform	2	15.45		0.45	13.91			
		2	4.70		0.45	4.23			
	Todlar platform	2	4.65		0.45	4.19			
		2	4.60		0.45	4.14			
	Park area	2	115.00		0.35	80.50			
	Circular kerbs	1	3.142	24.00	0.35	26.39			
	For seating benches	5X2	1.50	0.40		6.00			
	For Resting	5X2	1.50	0.45		6.75			
	For Legs	5X4	2.00		0.10	4.00			
					Total	**150.10**	66.78	sqmt	10023.86
	Basic Rate	63.00							
	Area weightage @ 6%	3.78							
	Total	66.78							
11	Supply and fixing of **Seated Chest Press**. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark-EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All products must carry a GS mark on it.. Size_L x W x H): 1955 x 733 x 2058 mm. Weight: 86.6 Kg Safety Area: 5545 x 4470 mm Capacity_2 Persons.								
						1.00	230000	each	230000.00
12	Supply and fixing of **Elliptical Cross Trainer.** Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark-EN16630 Certificates must be in the name of tendering party and not any 3rd party. The certificates must be attached with the tender document. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L x W x H): 1267 x 582 x 1764 mm. Weight: 43.5 Kg Safety Area: 4322 x 3632 mm Capacity_1 Person.								
						1.00	140000	each	140,000.00

	upply and Fixing of **Tai Chi Spinners**. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. The certificates must be attached with the tender document. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L x W x H): 1120 x 1150 x 1620 mm. Weight: 39 Kg Safety Area: 3520 x 3550 mm Capacity_3 Persons.				-
		1.00	115000	each	115,000.00
14	Supply and fixing of **HD Health Walker.** Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not				-
		1.00	140000	each	140,000.00
15	Supply and fixing of **HD Waist Twister.** Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products				-
		1.00	130000	each	130000.00
16	Supply and Fixing of **Rider.** Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS only. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates.. Size_L x W x H): 910 x 655 x 1270 mm. Weight: 29.5 Kg Safety Area: 3310 x 3000 mm Capacity_1 Person.				-
		1.00	90000	each	90,000.00
17	Supply and Fixing of **Arm & Pedal Bike**. Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely				-
		1.00	170000	each	170,000.00

	upply and fixing of **Self Weighted Rower.** Metal: All tubular steel of 2.5mm thickness are alvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edg and burrs. Zinc Primer Paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel-Great Wall powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCl solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Colour RAL 5019 Blue and RAL 1014 Beige Rubber: High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintain according to EN 16630 and the maintenance guide. Safety: All products must be tested and certified to meet EN16630 safety standards only by a reputed notified international certifying agency such as IPEMA, TUV, CPSC, or SGS. The GS Mark- EN16630 Certificates must be in the name of tendering party and not any 3rd party. All products must carry a GS mark on it.. Size_L x W x H): 1390 x 805 x 1100 mm. Weight: 42.4 Kg Safety Area: 3790 x 3205 mm Capacity_1 Person.				-
		1.00	165000	each	165000.00
19	Supply and Fixing of Special Multi Play System. This equipment comprises of 10 poles of size Dia 114 mm and thickness of 2.5 mm and 3 square decks and 1 rectangular deck made of steel 2.5 mm and rubber coating thickness of 2.5 mm. It is made of hot rolled steel, which is then hot-dipped galvanized. Installation requirement:The equipment should be installed on a concrete base. Metal Parts (Steel Climber, Steel panel, Ladder, Handrail..) Material : The Steel Climber, Steel panel, Ladder, Handrail are welded from Dia.25/32/38/48/60mm steel tubes and wall thickness of 2.5mm(The quality of steel meets with the requirement of GB / T 700-1988). The welding used is CO2 shielded arc welding (meets with the requirement of BS1387-1985, and the				-
		1.00	601917	each	601,917.00
20	Supply and fixing of Special Multiplay System. This system comprises of 3 slides which are made of virgin LLDPE which is of sizes 1. Two 1200 mm wavey slide- 2238 mm x 920 mm x 2382 mm, both the slides have got an in built exit panel which is a must as it provides extra safety to children. 2. One 1500 mm spiral slide – 2146 mm x 1623 mm x 2490 mm, the slide has got a exit rod which is a must as it provides extra safety to children.The 1500 mm slide has a rectangular deck of size 959 mm x 650 mm x 80 mm. Material: Virgin LLDPE which is UV				-
		1.00	536841	each	536,841.00
21	Supply and fixing of Special Multiplay System. This systems consists of – a B ladder Climber which is made of Galvanized steel which is of size 635 mm x 582 mm x 2598 mm and is connected to an exit door which is also made of galvanized steel which is of size 990 mm x 32 mm x 1454 mm. It also consists of a Rock Climber which has climbing pegs of size 150 mm x 75 mm x 98 mm which is bolted on a plate which is made of steel and of size 700 mm x 20 mm x 1680 mm. The system has a tunnel which connects the Rock climber Deck and the B- ladder				-
		1.00	669173	each	669,173.00
22	Supply and Fixing of Merry Go Round The platform Dia.1.21m, of thickness 2mm and width of 60 mm, with solid precision punched holes and reinforcement rib. After shot blasting, oil and phosphate removal, Zinc Primer Paint is applied at all the welding points using Zinc powder (Interpon PZ660) and Powder coated using Akzo Nobel powder coating.The handrails is made from Dia. 50 mm galvanized steel tubes and wall thickness of 2mm as per GB / T 700-1988. The welding used is CO2 shielded arc welding (meets with the requirement of BS1387-1985, and the technology used meets the requirement of the BS1387-1985) and welding is done by robotic welding. The Centre rod for the merry go round is made from 98mm dia, galvanized steel post and connected on to a 160mm dia pipe which is connected to the base plate at the bottom for fixing the foundation. The concealed bearings of grade 6213 and 32213 which conforms to GB-T308-2002 is used to ensure smooth movement of the equipment. The centre rod is connected to the 1.3m dia platform througha base plate of 250mm dia using M16 stainless steel anti theft screws. The installation requires the poles to be fitted using Anchor fasteners on a concrete foundation of minimum strength M-25, cement concrete blocks of required size,as per direction given by engineer incharge, finished below ground level. This equipment to comply with EN 1176 Safety certification standards. As per the approved design or pattern				
		1.00	94924	each	94,924.00
23	Supply and fixing of A Swing. This equipment comprises of 2 No. A shaped Frame and Toprail made of Dia. 76 mm galvanized steel tubes and wall thickness of 2 mm(The quality of steel meets with the requirement of GB / T 700-1988). The swing chains are made from galvanized steel which is rubberize coated of dia 6mm and length 1400mm. The swing chains are connected to the toprail using a specialized Clamp connector. #6201 bearing is used to connect the clamp & chain ,which is made as the standard GB/T276-2013. Size (L x W x H): 2585x 500 x 2000 mm. Weight: Approx 45Kg. Children capacity: 2. This equipment to comply with EN 1176 Safety certification standards. As per the approved design or pattern				
		1.00	66358	each	66,358.00

	Supply and fixing of 2 Seater See Saw. The Frame and Support Post is made of Dia. 114 mm galvanized steel tubes and wall thickness of 2.5mm(The quality of steel meets with the requirement of GB / T 700-1988). The welding used is CO2 shielded arc welding (meets with the requirement of BS1387-1985, and the technology used meets the requirement of the BS1387-1985) and welding is done by robotic welding. The handrail and foot rest is made of Dia. 32 mm steel tubes and wall thickness of 2 mm(The quality of steel meets with the requirement of GB / T 700-1988). The welding used is CO2 shielded arc welding (meets with the requirement of BS1387-1985, and the technology used meets the requirement of the BS1387-1985) and welding is done by robotic welding. The seat is made from virgin LLDPE, shaped by Rotational molding and strictly conforms to GB/T 4454-1996. The thickness of plastic is of 6 mm, colorful, UV resistant, anti-static and will not fade easily. Also it is safe and environmental friendly. All accessories such as Nuts and Bolts are made from stainless steel 304#. Size (L x W x H): 1800x 500 x 855 mm . Weight: Approx 36Kg. Children capacity: 2. This equipment to comply with EN 1176 Safety certification standards. As per the approved design or pattern								-
						1.00	56309	each	56,309.00
25	Supply and Fixing of Bike Rider. The rider consists of HDPE body and seats in the shape of a bike which is of size 828 mm x 345 mm x 720 mm and 15mm thickness which meets the GB/T13663-2000 standard. The HDPE used is UV Stabilized, heat resistant, Non toxic and anti color fade. The frame is connected to a Spring of dia 150 mm, thickness of 20 mm and height of 330 mm made of hot rolled spring steel coil of grade GB-1222 or equivalent. Size (L x W x H): 828 x 345 x 1050 mm. Weight: Approx 25 Kg. Children capacity: 1 This equipment to comply with EN 1176 Safety certification standards. As per the approved design or pattern								-
						1.00	43992	each	43,992.00
26	Supply and Fixing of Elephant Rider Frame made of High density Polyethylene(HDPE) of of size 900mm x 250mm x 575mm and 15mm thickness which meets the GB/T13663-2000 standard. The HDPE used is UV Stabilized, heat resistant, Non toxic and anti color fade. Spring of dia 150 mm, thickness of 20 mm and height of 330 mm made of hot rolled spring steel coil of grade GB-1222 or equivalent. Size (L x W x H): 900 x 250 x 900 mm. Weight: Approx 22 Kg As per the approved design or pattern								-
						1.00	43992	each	43,992.00
27	Supply and Fixing of Parrot Rider. Frame made of High density Polyethylene(HDPE) of of size 930mm x 431mm x 615mm and 15mm thickness which meets the GB/T13663-2000 standard. The HDPE used is UV Stabilized, heat resistant, Non toxic and anti color fade. Spring of dia 150 mm, thickness of 20 mm and height of 330 mm made of hot rolled spring steel coil of grade GB-1222 or equivalent. Size (L x W x H): 930 x 431 x 945 mm. Weight: Approx 30 Kg As per the approved design or pattern								-
						1.00	51968	each	51,968.00
28	Providing and fixing ornamental delhi benches as per design specification and fixing as per the direction of Engineer in charge of work								
						8.00	8500	Nos	68000.00
29	Providing and fixing granite benches as per design specification and fixing as per the direction of Engineer in charge of work								
						5.00	10550	Nos	52750.00
30	Supply and Fixing of 25 MM SBR Rubber Flooring. Safety Flooring tiles of 25mm thickness made of SBR [Styrene-Butadiene Rubber] with X Lock and interlocking arrangements. The tile should be in one single layer in one colour from top to bottom. The tiles come with Interlock pins which are then easily placed into preset holes for surface security, uniform laying and integrity. The SBR Rubber tiles to comply with EN 1177 Safety certification standards. As per the approved design or pattern								-
		1	4.65	4.60		21.39	5411	sqmt	115741.29
31	Supply and fixing safety instruction board with BBMP Logo and company of manufacturing Logo finished product should have the following specification 1 inch *16 gauge sq metal frame, 2 inch by 16 gauge round pipe powder coated ,Fittings and clamps suited flex 2 print, sq pipe frame 1.2m x0.3m, round 3.48m by 2 inches * 16 gauge – 2 nos, flex print - 1 nos with safety instructions.								-
						1.00	15332	Nos	15332.00
32	KSRB 14.6-1: Providing and resetting of available heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm jOints, final compaction of paver surface joints into its final level, includingthick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between labour and HOM of machineries complete as per specifications (P.No 101 of I.No.14.6 in PW,P&IWTD SR 2015-16)								
	Park Area	1	150.00	3.00		450.00			
	(-)Missing and damaged portion	1	30.00	3.00		90.00			
					Total	**360.00**	457.92	Sqm	164851.20
	Basic Rate	432.00							
	Area weightage @ 6%	25.92							
	Total	457.92							

Sl. No	Description of work	No	Dimensions L	B	D	qty	Rate	Unit	Amount
33	KSRB 14.6-1: Providing and fixing of available heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm jOints, final compaction of paver surface joints into its final level, includingthick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between labour and HOM of machineries complete as per specifications (P.No 101 of I.No.14.6 in PW,P&IWTD SR 2015-16)								
	Missing and Damaged portion	1	30.00	3.00		90.00			
					Total	90.00	966.72	Sqm	87,005.00
	Basic Rate	912.00							
	Area weightage @ 6%	54.72							
	Total	966.72							
34	Providing and filling of Sand to play area, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. (P. No. 43 / I. No. 7.37 of CSR 2015-16)								
	Gate	1	225.00		0.40	90.00			
					Total	90.00	1700.00	Sqm	153,000.00
	Basic Rate	1700.00							
	Total	1700.00							
35	Lead for earthwork and disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading for earthwork (upto 10 kms) complete with all lead & lift & as per the direction of the Engineer in charges. (S.R.of PW,P & IWTD, SR 2016-17								
	For 10k.m	10x1.3x2=		26.00					
	Loading & unloading			68.00					
				94.00		85.57			
	A.W 6% =			5.64					
	Total =			99.64					
	Qty item No.1 , 2					41.47			8526.24
					Total	41.47	99.64	cum	4,131.87
									4,565,119.75
							KRIDL Charges 9%		410,860.78
							Third party and QC Charges0.5%		22,825.60
							Miscellaneous		1,193.88
							GRAND TOTAL Rs.		5,000,000.00

4566135.90
410952.23
22830.68
81.19

Certificate

1. The work spot has been inspected and the work is found necessary
2. This estimate is prepared as per C.S.R. of 2016-17 & approved data rate.
3. This provisions were made in this estimate are necessary and adequate
4. This work cormes under B.B.M.P limits

Asst. Engineer
BBMP

8/3/17

Asst. Executive Engineer Project
Yelahanka Zone, BBMP

Executive Engineer project
Yelahanka Zone
BBMP
8/3/17.

Administrative Approval

Accorded For .....
Head of A/C..... P-3089
CER NO :..04/16-17 Dt:..18-03-17

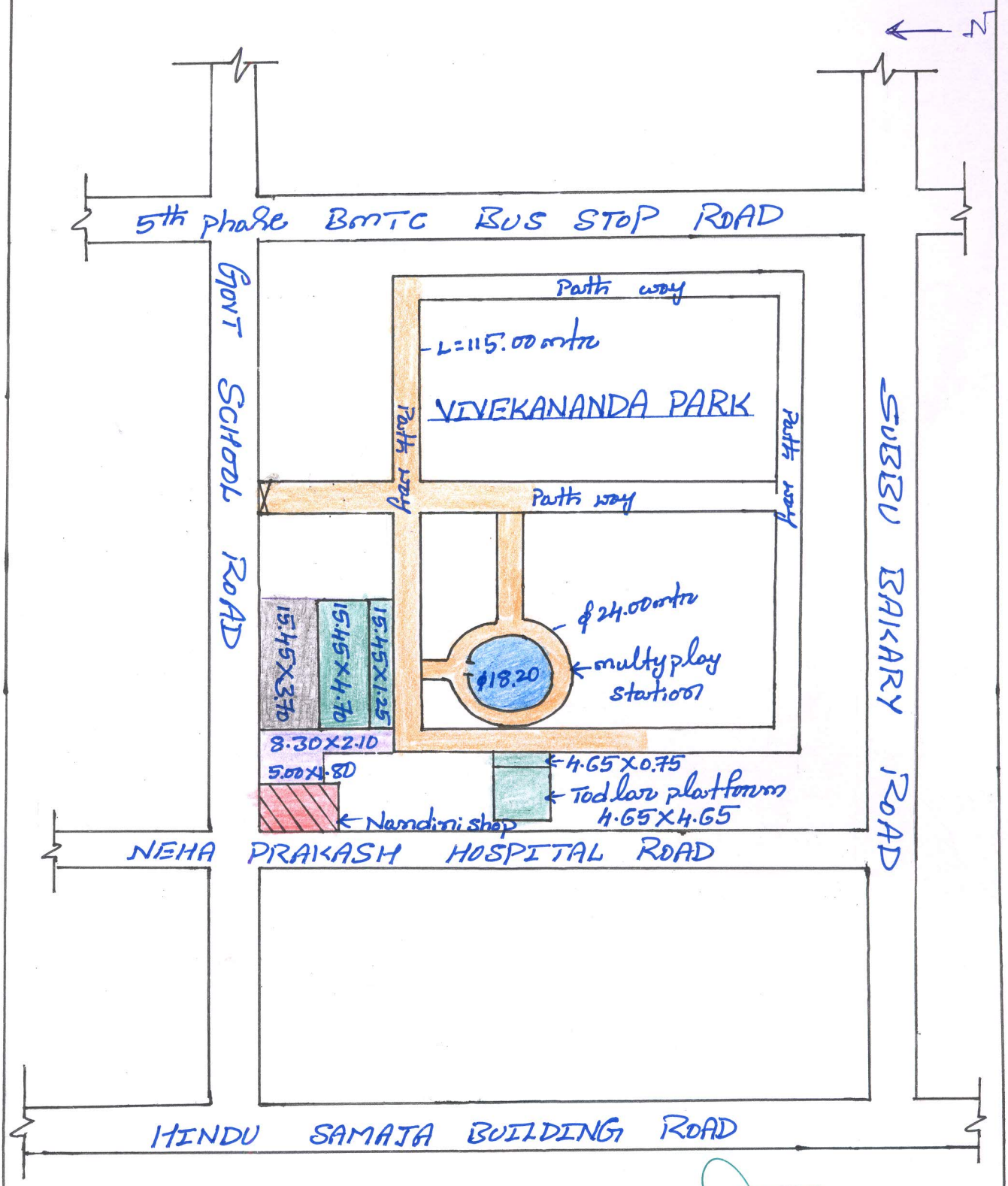
E.E. (Project) 18/3

Technical Sanction

Accorded For ..50.00 lakh Rs.
Head of A/C..... P2415
CER NO :..179 Dt:..20/03/17

TA CE (YNK)

Name of work:- Providing open gyms in vivekananda park and SFS Mat Park in Attur ward No-03.



Priya Vashi
AE.